of *Sciences* of *Paris*, at *Eaſter* 1746, I heard Mr. *de Reaumur* read a Memoir on this Subject. My Glaſs ſeem'd to me vaſtly preferable to the Veſſels propoſed by that great Academician. This Incident rouzed my Emulation, and gave me the better Opinion of my Glaſs, a Pattern of which I ſent to M. *Morand*. The ſame Motive engages me to take the Advantage of the Freedom of Correſpondence re-eſtabliſhed between *France* and *England*, in ſending this Deſcription to the *Royal Society*.

IV. Obſervationes aliquæ *aſtronomicæ* à Reverendo P. P. *Suarez è* S. J. in *Paraquaria* habitæ, et per D. *Suarez* M. D. cum *Soc. Regali* communicatæ.

Preſented Jan. 19. 1748-9.

ANNO 1747, *Februarii* 24, poſt meridiem, nubilo cœlo toto fere tempore eclipſis Lunæ, hæc tantum obſervari potuerunt in miſſionibus *Paraquariæ Soc. Jeſ.* à *P. Bonaventura Suarez*, ejuſdem Soc. miſſionario, in oppido *Sancti Angeli Cuſtodis*, poſt emerſionem ſecundi digiti Lunæ ex umbra Terræ, teleſcopio ped. 10½.

	h	′	″
Ariſtarchus emergit	14	31	47
Tycho emergit	14	37	30
Calippus emergit	14	56	47
Dionyſius emergit	15	0	4
Mare Criſ. incipit emergere	15	13	17
Finis Eclipſis	15	16	4

Intercapedinem

Intercapedinem marginum occidentalium Lunæ, et *Maris Criſii* vix capiebat diameter minor maculæ *Platonis*.

Oppidum *Sancti Angeli* in miſſionibus *Paraquariæ* Soc. *Jeſu* eſt reliquis orientalius. Ejus longitudo ab inſula *Ferri* eſt *gr.* 323. *m.* 30. et latitudo *gr.* 28. *m.* 17 *Auſt.*

Eclipſis Lunæ ab eodem obſervata in oppido *Sanctæ Mariæ Majoris*, eodem anno 1747. *Auguſti* 19. horis p. m.

Penumbra ſenſibilis erat hor. 14. 44′.

Immerſio Lunæ et macularum in umbram.

	h	′	″
Initium	14	55	44
Ariſtarchus	15	0	13
Galilæus	15	0	41
Mare humor. incip.	15	4	14
Ang. infer. terræ pruinæ	15	5	29
Copernicus, *&c.*	15	9	26
Mare humor. totum	15	9	26
Plato, et Tycho æquidiſtabant a cent. umbræ	15	13	44
Idem	15	17	2
Plato et Tycho ſimul in margine umbræ	15	20	25
Digiti 6 obſcurati	15	24	6
Menelaus	15	27	28
Dionyſius	15	29	35
Lacus Somniorum	15	36	10
Maris Criſii Initium	15	43	41
Medium	15	46	26

	h	′	″
Finis . . .	15	49	16
Totalis obſcuratio Lunæ . .	15	53	16

Emerſio Lunæ ex umbra.

	h	′	″
Initium emerſionis . . .	17	34	48
Grimaldus	17	36	52
Ariſtarchus . . .	17	40	0
Plato	17	53	34
Tycho	18	0	23
Digiti 6 obſcurati . . .	18	3	30

Luna prope occaſum vaporibus horizontis tremula non amplius fuit obſervata.

Toto tempore eclipſis Lunæ fuit cœlum valde ſerenum.

Longitudo *S. Mariæ Maj.* ab inſula *Ferri* gr. 322, m. 40.

Latitudo gr. 27, m. 51. Auſtr.

V. Obſervatio *Eclipſis ſolaris* Julii 14, et *Lunæ* Julii 28, 1748. *Madriti* habitæ à Domino *Antonio* de *Ulloä* S. S: R:

Preſl. Jan. 26. 1748-9. CUM ad faciendam hujus eclipſis obſervationem paratum quidem eſſet teleſcopium reflexionis duos circiter pedes oblongum; cumque ſatis notus haberetur motus penduli cujuſdam aſtronomici, quo in mea ad *Peruviana* regna migratione ad plurimas ibidem una cum D. *Georgio Joanne* peractas obſervationes uſus fueram, animadverti